

## CLAIMS:

1. A shaving apparatus comprising:  
a plurality of shaving heads, each comprising a circular shear (3) plate provided with hair-entry apertures (4); a rotatable cutting member (5) associated with and rotatable relative to the shear plate (3),  
5 a motor (10), and  
a drive structure coupling said motor (10) to said cutting members (5) for driving the cutting members (5) into rotation, said drive structure comprising a plurality of drive units (9), each of said drive units extending at least from a drive rim (7) engaged for driving the drive unit to a coupling end (27) coupled to one of said cutting members (5) for  
10 transferring rotation of the drive unit (9) to the cutting member (5),  
wherein at least the drive rims (7) of the drive units (9) are each suspended for rotation about an axis of rotation (20),  
characterized in that, the axes of rotation (20) of said drive rims (7) are oriented at angles relative to each other and diverge from each other in a direction from the drive rim (7) to the  
15 coupling end (27).
2. An apparatus according to claim 1, in which the angle between said axes of rotation of said drive rims is at least 3°.
- 20 3. An apparatus according to claim 1 or 2, further comprising a central gear wheel (8) engaging said drive rims (7), said central gear wheel being rotatable about an axis of rotation extending between the axes of rotation of said drive rims (7) of said drive units (9).
- 25 4. An apparatus according to any one of the preceding claims, further comprising a shear-plate holder (2) comprising a number of elements, each holding at least one shear plate, which elements are tiltable with respect to each other.

5. An apparatus according to any one of the preceding claims, further comprising a shear-plate holder (2) comprising a number of elements, each holding at least one shear plate, which elements extend at angles to each other.
- 5 6. An apparatus according to any one of the preceding claims, in which at least two of said angles between axes of rotation (20) of said drive rims (7) are different from each other.
7. An apparatus according to any one of the preceding claims, in which the  
10 number of shaving heads is larger than three.